SEQUENCE LISTING

<110> RANA, Tariq M.
CHIU, Ya-Lin

<120> IN VIVO GENE SILENCING BY CHEMICALLY MODIFIED AND STABLE siRNA

<130> UMY-062

<140> 10/672069
<141> 2003-09-25

<150> 60/413529
<151> 2002-09-25

<150> 60/426982
<151> 2002-11-15

<150> 60/458051
<151> 2003-03-25

<150> 60/493095
<151> 2003-08-05

<160> 34

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20 and 21

<400> 1
gcagcacgac uucuucaagt t 21

<210> 2
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20 and 21

<400> 2
cuugaagaag ucgugcugct t 21

<210> 3
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> siRNA target sequence

<400> 3
aagcagcacg acuucuucaa g 21

<210> 4
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> siRNA target sequence

<400> 4
aagugggagc gcgugaugaa c 21

<210> 5
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20
and 21

<400> 5
gugggagcgc gugaugaact t 21

<210> 6
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20
and 21

<400> 6
guucaucacg cgcucccact t 21

<210> 7
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20
and 21

<220>
<221> modified_base
<222> 1
<223> 5'-aminopropyl-modified guanosine

<400> 7
gcagcacgac uucuucaagt t 21

<210> 8
<211> 21
<212> DNA

<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20 and 21

<220>
<221> modified_base
<222> 1
<223> 5'-aminopropyl-modified cytidine

<400> 8
cuugaagaag ucgugcugct t 21

<210> 9
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at position 20

<220>
<221> modified_base
<222> 21
<223> 3'-Puromycin modified deoxythymidine

<400> 9
gcagcacgac uucuucaagt t 21

<210> 10
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidine at position 20

<220>
<221> modified_base
<222> 21
<223> 3'-Puromycin-modified deoxythymidine

<400> 10
cuugaagaag ucgugcugct t 21

<210> 11
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidine at position 20 and 3'-Biotin-modified deoxythymidine at position 21

<220>
<221> modified_base
<222> 21
<223> 3'-Biotin-modified deoxythymidine

<400> 11
cuugaagaag ucgugcugct t 21

<210> 12
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 22 and 23

<400> 12
gcagcacgac uguucuucaa gtt 23

<210> 13
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 22 and 23

<400> 13
cuugaagaaa cgucgugcug ctt 23

<210> 14
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxynucleosides at positions 1-21

<400> 14
cuugaagaag ucgugcugct t 21

<210> 15
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20 and 21

<220>
<221> modified_base
<222> 2, 3, 11, 14, 17
<223> 2'-fluoro uridine

<220>
<221> modified_base
<222> 1, 12, 16, 19
<223> 2'-fluoro cytidine

<400> 15
cuugaagaag ucgugcugct t 21

<210> 16
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20 and 21, deoxyadenosine at position 9 and deoxyguanosine at positions 10 and 13

<220>
<221> modified_base
<222> 2, 3, 11, 14, 17
<223> 2'-fluoro uridine

<220>
<221> modified_base
<222> 1, 12, 16, 19
<223> 2'-fluoro cytidine

<400> 16
cuugaagaag ucgugcugct t 21

<210> 17
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20 and 21, deoxyadenosine at position 9 and deoxyguanosine at positions 10, 13, 15 and 18

<220>
<221> modified_base
<222> 2, 3, 11, 14, 17
<223> fluoro uridine

<220>
<221> modified_base
<222> 1, 12, 16, 19
<223> 2'-fluoro cytidine

<400> 17
cuugaagaag ucgugcugct t 21

<210> 18
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20 and 21, deoxyadenosine at position 5, 6, 8, 9 and deoxyguanosine at positions 4, 7, 10 and 13

<220>
<221> modified_base
<222> 2, 3, 11, 14, 17
<223> 2'-fluoro uridine

<220>
<221> modified_base
<222> 1, 12, 16, 19
<223> 2'-fluoro cytidine

<400> 18
cuugaagaag ucgugcugct t 21

<210> 19
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20 and 21, deoxyadenosine at position 5, 6, 8, 9 and deoxyguanosine at positions 4, 7, 10, 13, 15 and 18

<220>
<221> modified_base
<222> 2, 3, 11, 14, 17
<223> 2'-fluoro uridine

<220>
<221> modified_base
<222> 1, 12, 16, 19
<223> 2'-fluoro cytidine

<400> 19
cuugaagaag ucgugcugct t 21

<210> 20
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20 and 21

<220>
<221> modified_base
<222> 11, 12, 14, 15
<223> 2'-fluoro uridine

<220>
<221> modified_base
<222> 2, 5, 7, 10, 13, 16
<223> 2'-fluoro cytidine

<400> 20
gcagcacgac uucuucaagt t 21

<210> 21
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20

and 21

<220>
<221> modified_base
<222> 11
<223> 3-methyl uridine

<400> 21
cuugaagaag ucgugcugct t 21

<210> 22
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20 and 21

<220>
<221> modified_base
<222> 2, 3, 11, 14, 17
<223> 3-methyl uridine

<400> 22
cuugaagaag ucgugcugct t 21

<210> 23
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20 and 21

<400> 23
cuugaagaag ucgugcucgt t 21

<210> 24
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20 and 21

<400> 24
ucugaagaag ucgugcugct t 21

<210> 25
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20 and 21

<400> 25

ucccuuccug auacuagaat t 21

<210> 26
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20 and 21

<400> 26
ucccuuccgu auacuagaat t 21

<210> 27
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20 and 21

<400> 27
ccaaagcuuc ccccuauaat t 21

<210> 28
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20 and 21

<400> 28
ccaaagcucu ccccuauaat t 21

<210> 29
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> siRNA target sequence

<400> 29
aactgggcga gtattacatg att 23

<210> 30
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> siRNA target sequence

<400> 30
aactgggcgg atattacatg att 23

<210> 31

<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with two deoxythymidines at positions 20 and 21

<400> 31
uuggucuccu ugaugcuuut t 21

<210> 32
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA molecule with deoxythymidines at positions 20 and 21

<400> 32
gaaacguaga cagcgcagat t 21

<210> 33
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA primer

<400> 33
gcctaatacg actcactata ggacctacgg cgtgcagtgc 40

<210> 34
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA primer

<400> 34
ttgatttagg tgacactata gatggtgcgc tcctggacgt 40